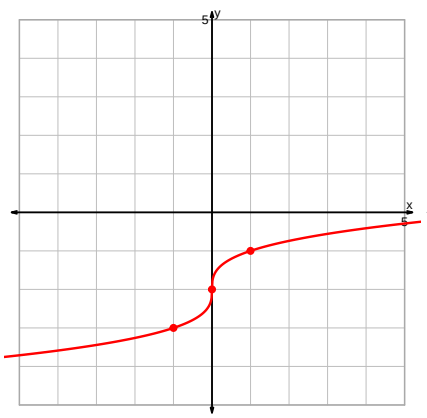
NAME: DATE:

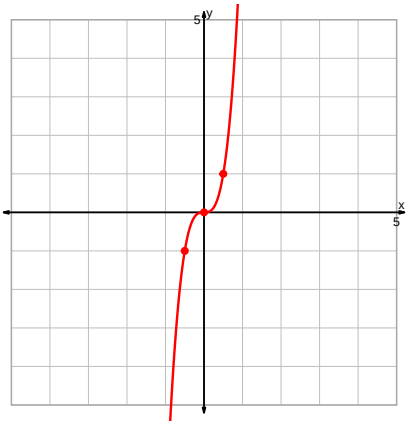
Unit-2 Reduced Mastery Assessment (version 301)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

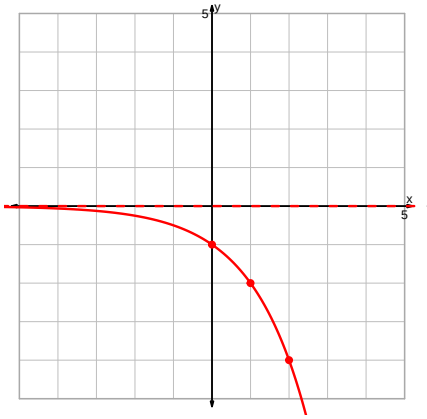
$y = \sqrt[3]{x} - 2$

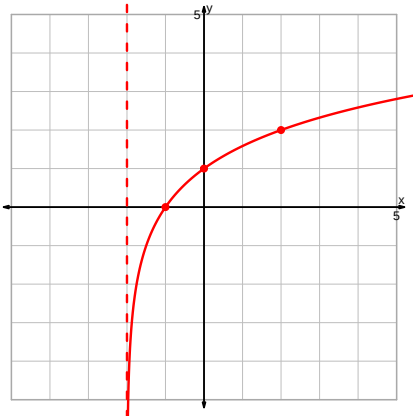




$y = (2x)^3$

$y = -2^x$

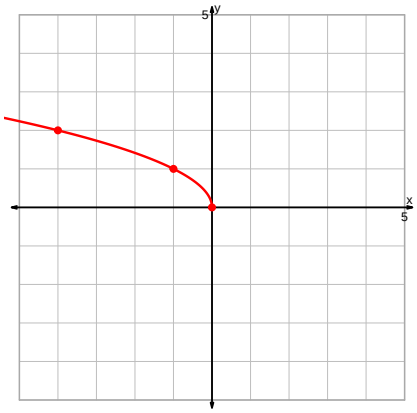


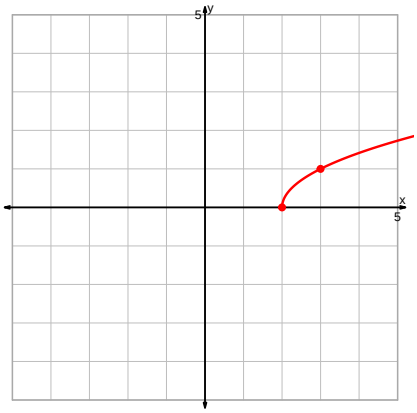


$y = \log_2(x+2)$

Question 2 continued. . .

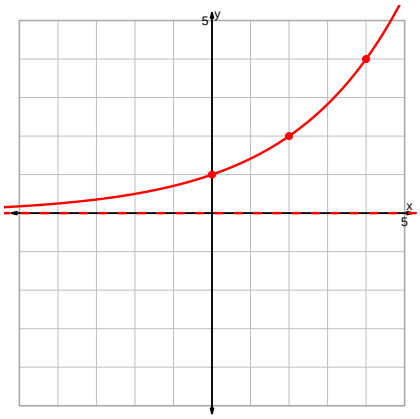
$y = \sqrt{-x}$

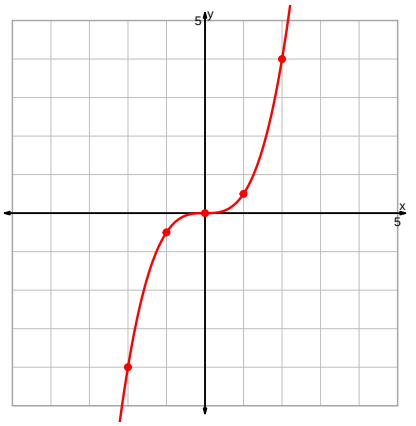




$y = \sqrt{x-2}$

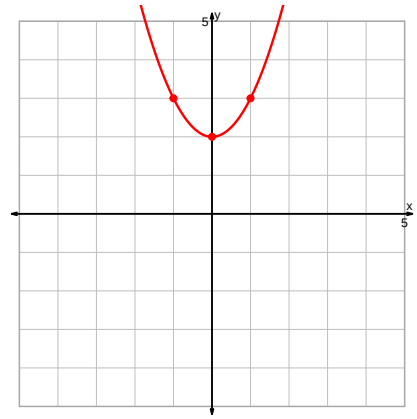
$y = 2^{\frac{x}{2}}$

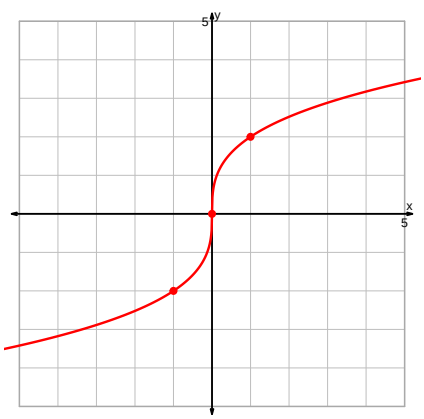




$y = \frac{x^3}{2}$

$y = x^2 + 2$

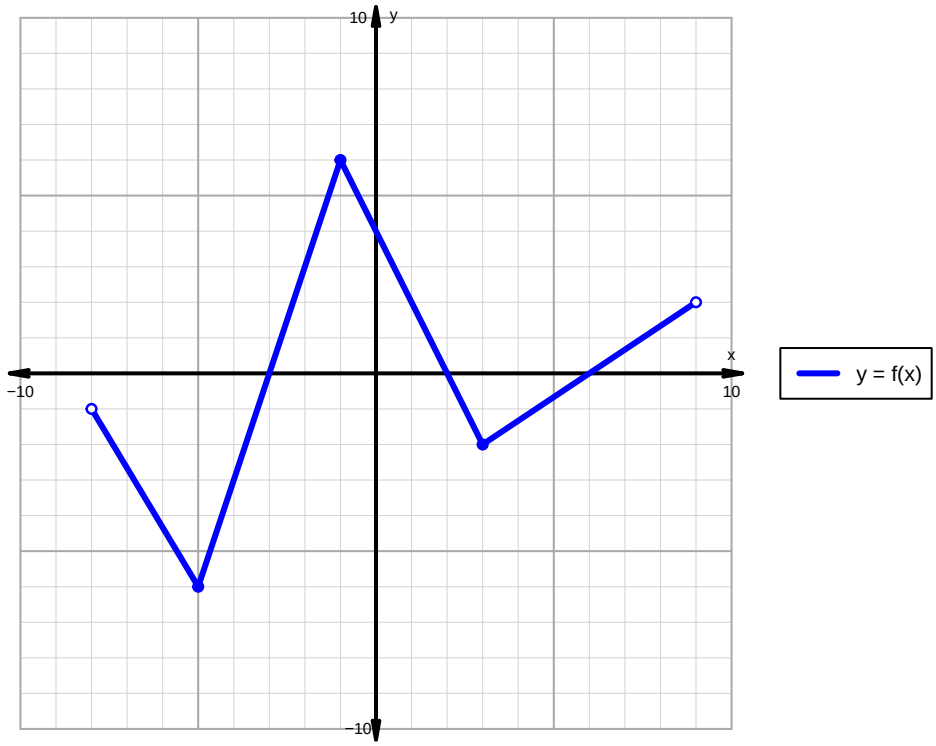




$y = 2 \cdot \sqrt[3]{x}$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-3, 2) \cup (6, 9)$
Negative	$(-8, -3) \cup (2, 6)$
Increasing	$(-5, -1) \cup (3, 9)$
Decreasing	$(-8, -5) \cup (-1, 3)$
Domain	$(-8, 9)$
Range	$(-6, 6)$